AEE/YPK/SBK/12/16-17 Dt. 12/7/16

No. 1st & FINAL BILL

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

Date : .....

Division RRND

Sub-Division

Bill Received No. ..... Dated .....

Cash Book Voucher No. ..... Dated :.....

Scheduled Doctet No. .....

Head of Account .....

Name of work (as per sanctioned estimate) DEVELOPMENTS WORKS FOR PROVIDING DRINKING WATER FACILITY IN JALAHALLI WARD NO. 16

RRND/ 22.08.16

Name of Contractor and Full Address THE TECHNICAL MANAGER , KRIDL

Reference to Agreement No. EE/RRND/WO.NO/ 35 / 2016-17 Date: .....

Certified that the measurements were taken by me on 5/7/16 and recorded in pages 366220 to 366230 of measurements Book No. 3663 and that the work is satisfactorily executed.

Executive Engineer-3
KRIDL, BBMP, Bangalore

Contractor

Officer - in - charge of work

EE (RRND)

Certified that the measurements were checked by me on 5/7/16 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
Sub-Division Officer
ಉಪವಿಭಾಗದ ಅಧಿಕಾರಿಗಳಾಗಿ

If Memorandum of Payment

JOB CODE: 016-16-000011

		AMOUNT
1.	Total value of work done or supplies made as per account.	Bill Amt Rs 23,27,456=00
2.	Deduct amount to be held in reserve being ..... percent Rs.	IT - 47,247=00
3.	- do - Balance	KST - 93,098=00
4.	Deduct Payments :	FSD - 1,51,285=00
	a) Amount of previous payment as in the Office Cash Book Voucher No..... Dated ..... S.D. No.	Royalty - 4,800=00
	Amount adjusted towards cash advance recovery of	Lwf - 2,275=00
	b) Payments cost store or other materials supplied.	Total -- 2,400=00
5.	Balance being unpaid value of work done held in reserve	CBF - 3,22,105=00
6.	Deduct cash advance made on the office Cash Book Vehicle No. ..... dated ..... less adjustments	Adj :-
7.	Net amount due to or from contractor	net pay/r 20,05,351=00
	Unadjusted items	
8.	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied.	
		Total amount adjusted --

Executive Engineer-3
Countersigned KRIDL, BBMP, Bangalore

Received Rs. ..... (in words)

..... by cash and by adjustment of

Payment as per memorandum.

Witnes sre : (In final settlement of all demand)

1.

2.

Date

Paid by me by cheque No..... Dated .....

Cash Rs. ..... Dated .....

Initials of Officer making payment dated .....

Stamp

Executive Engineer-3
Signature of Contractor KRIDL, BBMP, Bangalore

(For use in the Office)

Admitted Rs. 23,27,456=00

Cheque Rs. 20,05,351=00

(Twenty lakhs five thousand three hundred fifty one only.)

Adjustment Rs 3,22,105=00

Case Worker

for K.Govindaraju
Executive Engineer
Superintendent

Executive Engineer

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	Items of work (grouped under sub-heads the sub works of the estimate)	Unit	Previous Measurement			Present Measurement			Total Up-to-date		Remarks
			Qty	Rate Rs. Ps.	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
1	Carrying out geophysical survey Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting gvenner or schiberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the licating the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling required to cover full depth of acquifer proposed to be tapped, probable yield and other information required including transportation and accessories to work site, engaging technical personal and labour required etc	No				4.00	1938.40	7754.00	4.00	7754.00	
2	Sinking borewell of 165mm dia clear using super fast Hydrolic rig of capacity 250 PSIG na above CFM nad abaove in all strats including over burden upto 20mm fixing of casing pipes collars and cap with necessary, cutting and threading including transportation of rig and supporting vehicles, crew charges and cost of consumbables etclm complete including yield testing at the final depth with a minimum work in on compression for an hour (excluding cost of casing pipes collars cap etc.,)										
a	Up to 50 mtrs Depth	Mtr				200.00	311.95	62390.00	200.00	62390.00	
b	Above 50 to 100 mtrs	Mtr				200.00	411.00	82200.00	200.00	82200.00	
c	Above 100 mtrs to 150 mtrs	Mtr				200.00	458.00	91600.00	200.00	91600.00	
d	Above 150 mtrs to 200 mtrs	Mtr				200.00	504.00	100800.00	200.00	100800.00	
e	Above 200 mtrs to 250 mtrs	Mtr				190.00	557.00	105830.00	190.00	105830.00	
3	Supplying of ISI mark 175mm nominal bore medium black ERW casing pipe of 5mm thick black electric continuou welded mild steel tube material confirming to IS 1387 & manufactured from hot rolled steel skelp/striped in random length of 4 to 7 mts. Both ends threaded confirming to IS 554/19685, one and fixing with a socket and the other end with a plastic protection end (inclusive of all taxes) (As per approved rates by superintendent engineer, RDED Engineering section, Bangalore.	Mtr				145.00	1350.00	195750.00	145.00	195750.00	
4	Providing 175mm dia MS collar	No				28.00	150.00	4200.00	28.00	4200.00	
5	Providing 175mm dia borewell cap	No				4.00	150.00	600.00	4.00	600.00	
6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings	No				4.00	59300.00	237200.00	4.00	237200.00	
7	Supply and delivery of brand new FINOLEX make PVC insulated X copper conducter to latest Indian Standard specification with 1x3x4 sqmm submersible flat cable.	No				2220.00	100.00	222000.00	2220.00	222000.00	
8	Erection pumpset including aligning and balancing with all necessary etction materials and labour including supply and erection of two pair of supporting clamps borewell cap, cable and water tight gland cable protectors, bolts, nuts etc., involved in the job.(necessary GI pipe) and specials will be supplied by the board at the site free of cost.	No				4.00	1710.00	6840.00	4.00	6840.00	
9	Supplying and fixing 50mm non return valve of vertical type of aplproved make including cost of all materials labour HOM of equipment with all leads compelte as per specification	No				4.00	1490.00	5960.00	4.00	5960.00	
10	Supplying and fixing 50mm dia GI union	No				12.00	223.70	2684.00	12.00	2684.00	
11	Supply and fixing 50mm GI Elbow	No				16.00	111.80	1789.00	16.00	1789.00	
12	Supply and fixing 50mm GI Nipple	No				20.00	104.30	2086.00	20.00	2086.00	
13	Supply and fixing 50mm GI Collar	No				148.00	111.80	16546.00	148.00	16546.00	

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	Items of work (grouped under sub-heads the sub works of the estimate)
14	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adarsh / GK controls best indigenous mak energy meter cum control panel board unit of sie 1200x600x350 mm minimum mechanically strong vermin and water unit shall have two detachable doors suitable for operation on 3ph. 50 Hz, 380/440 volts. AC supply with spring lo locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provide door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit operation on 3ph, 50 Hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consists etc the panel board shall be fabricated on single unit in the above components panel board for suitable pumpset with Star out door type 10 HP to 15 HP
15	Supply and Delivery of Galvanized Mild steel tubes Heavy Class (C-Class) conforming to IS 1239-1979 PART-I/1979 amendments with ISI mark (one end fitted with ISI mark heavy duty collar and other end fitted with Protective cover) 50 pipe with havy duty coller
16	Erection of panel board and meter unit with necessary materials and labour including providing cement concrete four cont door type etc., complete
17	Supplying of TPST with rewireable porcelain Channels in SM encloser 32 amps
18	Supplying and fixing 20" x 20"x 2.5"mm polished wood board made up not less than 15mm thick plank with front plat provided for olding at other end fixing the same of the valve using through bolts and nuts 20"x2"'x2.5"
19	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 Hz V DC
20	Wiring for lighting / power circuit using one of PVC insulated 1100V grade, multis and copper inducted single core cable concealed system of wiring, Ground B 4 Sqmm
21	Supplying shunt capacitors conforming to IS 2834.3 phase 400/440 volts grade for power factor improvement of rotating r Capacitor in KVAR rating.
22	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials complete as required 5-32 TPN
23	Supplying, fixing , wiring earth electrode for grounding conduits. LC cutouts and other equipments on the meter board u dia 2.90 mm thick GI pipe 2.5m long buried in a pit. The pit should be filled with equal proportion of solt and charc alround the pipe to complete depth. The connection from the pipe to the conduct etc., is to be etablished through GI wir epr ISI specification 7.3.3. IS 732 using 12mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throu 122 mm dia
24	Supplying and fixing class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole / wall / drain cr necessary clamping arrangements for UG cable of 1.1 KV class 40mm
25	Supplying of LT UG cable having aluminium conductor PVC insulated sheathed, galvanished, steel wire/steel tap armo with PVC outer sheathing 1.1 KV class (confirming to IS 1554(Id) 4 core 16 sqmm PVC cable.
26	Labour charges for laying 1.1 KV class UG cable when supplied departmentally/agency in existing trench GI pipe/stonew wall/on pole as required (a) 6 sqmm to 16 sqmm.
27	Digging of trench of 0.6m p x 0.50mtr vide refiling the trench to the required ground level and consolidation etc., comp road surface
28	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compelte with terminals clamsp, bolts nuts and washers etc., for 16 sqmm
29	Supplying and fixing of Porcelain fuse channel with cut out on existing / new wooden panel using necessary nuts, bolts a etc., complete
30	BESCOM Deposit charges and miscellaneous

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	Items of work (grouped under sub-heads the sub works of the estimate)	Unit	Previous Measurement			Present Measurement			Total Up-to-date		Remarks
			Qty	Rate Rs. Ps.	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
31	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications.	Cum				810.00	288.36	233572.00	810.00	233572.00	
32	Supplying PVC ringtile pipes conforming to IS 4985:2000 with latest amendents and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioing including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved tyupe, with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15 cm with soft gravel or selected earth available from the exvation etc., compelte and giving necessary hydraulic test to the required pressure as per ISS (contractor will make his own arrangements for procuring water for testing)	Rmt				810.00	77.76	62986.00	810.00	62986.00	
33	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications allow 60% of rate considered under item.	Cum				1500.00	74.00	111000.00	1500.00	111000.00	
34	Providing and fixing in position brass gate ball valve with C.I.wheel of aproved quality (screwd end) 15mm nominal bore including cost of all materials, labhour and HOM of equipements with all leads complete as per specifications.	No				16.00	2000.00	32000.00	16.00	32000.00	
	TOTAL				20,90,807=00			**2119607.00**		**2119607.00**	
	Add 11% KRIDL Charges				2,30,649=00			**275000.00**		**275000.00**	
	Grand Total				23,27,456=00			**2394607.00**		**2394607.00**	

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